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has been completed and field testing has been started. The first test was

tests, minor changes were made which will improve thermal efficiency with-

Three headsets for the reworked RS-16A field units were

Field Unit: The service test model of the AS-6 Field Unit

Washington, and the Base Station lo-

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Work on this Task has been completed.

RS-16A TEST POWER SUPPLIES

delivered to the Government during the reporting period.

AS-6 DATA TELEMETERING SYSTEM

SERVICE AND SUPPORT

in the oven.

TASK 6.

TASK

TASK 8.

between

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path between proved to be reasonably successful and further revealed a number of minor circuit problems which must be corrected before the test starts.

Due to circuit temperature problems, which remained undetected until the time of the final testing of the service test model, the operating temperature range for this model must be restricted to the range of from -20°C to +55°C for both the transmission and reception modes of operation. This temperature range restriction, in the transmit mode of operation, is due mainly to the method of crystal compensation employed in the exciter. Operation in the receive mode at low temperatures, however, is hampered by about a 40 db rise in attenuation in the delay line. These problems will be corrected in the finished model by the use of different compensating networks and a special delay line properly compensated for operation at low temperatures.

Sub-assemblies for the deliverable units have been started.

Base Station: Fabrication and check-out of the Transmit and Receive Terminals were completed during the early part of April. Both terminals were installed at Contractor's test facility and then operated during the tests, starting April 24th. Although this equipment performed satisfactorily, a small number of changes and additions will be made following completion of the currently scheduled field tests.

The Transmit Terminal was thoroughly checked for proper interoperation with the 231D transmitter, with respect to channel control and r-f feed-back, and found to perform satisfactorily.

TASK 9. LINEAR EXCITER FOR THE AS-LA

This program has been delayed indefinitely pending decisions on the future course of the AS-4B Program. This action has been concurred in by the cognizant Government engineers.

TASK 10. FABRICATION OF RS-16B

Machining of all case castings and two top plates has been completed. Wiring of the two top plates is scheduled to begin early in the next reporting period. A prototype field unit has been assembled, except for power supplies, and is new undergoing tests.

have been delivered by the machine shop vendor and their wiring and checkout is proceeding at a satisfactory pace.

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